



S&E Workforce Trends

- The U.S. student pipeline is shrinking
- Industry Demand for S&E skills must be recognized
- Minority representation in S&E is only one-third of the representation in the U.S. population at large
- Baby Boom generation peaks soon
- Public perception of aerospace industry as a boring, callous, "rust belt" place to work (Testimony of Elliot Pulham, President & CEO, The Space Foundation, before the Commission on the future of the U.S. Aerospace Industry)



NASA Workforce Demographics

NASA's S&E workforce mirrors the Nationwide S&E workforce

- Average age is 45
- Average retirement age is 61
- 51% have obtained a Master's degree or Ph.D.
- 50% are in positions at GS-14 and higher
- 35% are classified as Aeronautical Engineers
- 25% will be eligible to retire by September 2006



Philosophical Approach

"NASA will implement an integrated Agency-wide approach to human capital management. This approach will attract and maintain a workforce that is representative of the Nation's diversity and includes the competencies that NASA needs to deliver sustained levels of high performance that the Agency's challenging mission requires."

National Aeronautics and Space Administration, 2003 Strategic Plan



Corporate Framework

Executive Council

RECRUITMENT STEERING COMMITTEE

Associate Administrator for Education

•Links NASA Student
Research & Education
Programs to recruitment and
capacity building, including
leveraging University
Research Centers (URC),
Post-Doc investments,
Professional Organizations
and Scientific Societies.

Assistant Administrator for Human Resources

•Leads the Agency in managing and developing NASA's recruitment and outreach programs. Reviews Enterprise & Center competency analysis data to determine long-range workforce needs. Responds to these needs by developing legislative initiatives and flexibilities that will benefit the Agency. Reviews results of recruitment efforts to continually improve corporate strategies.

Assistant Administrator for Equal Opportunity Programs (EOP)

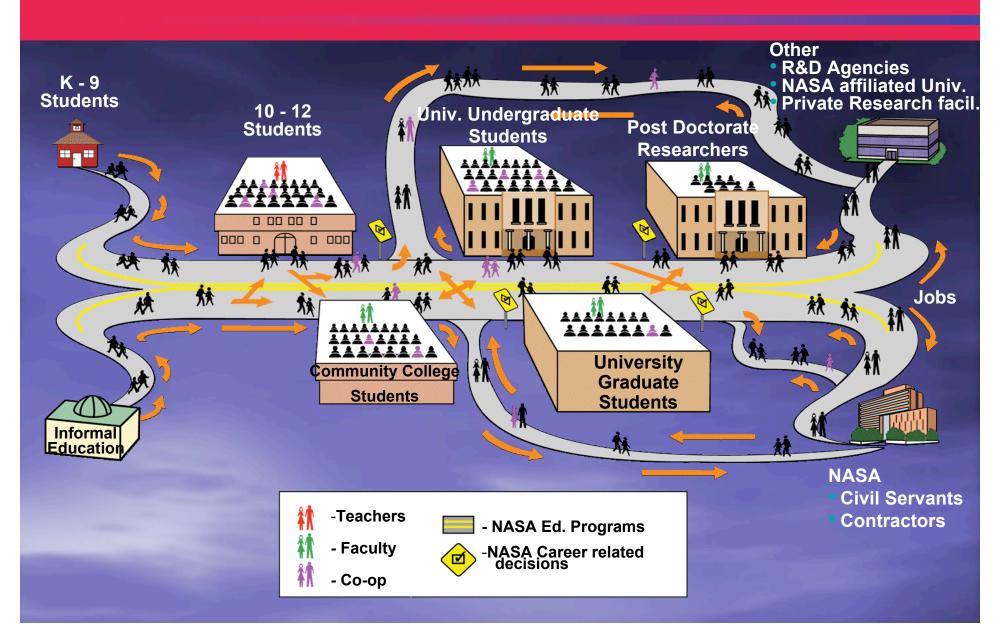
Ensures adherence to equal opportunity laws. Collaboratively develops & implements an Agency-wide diversity plan and strategic outreach plan that provides a highly-talented, diverse group of individuals in the candidate pool who possess the critical competencies and skills relevant to the Agency's priorities.

NASA RECRUITMENT COMMITTEE

A corporate-wide infrastructure of talented, experienced personnel representing Centers, Enterprises and Headquarters



Building a NASA Pipeline





NASA Education Enterprise





NASA Education Goals

1) MOTIVATE STUDENTS
TO PURSUE CAREERS IN
SCIENCE, MATHEMATICS,
ENGINEERING, AND
TECHNOLOGY



3) ENSURE THAT WE ARE INVESTING THE TAXPAYER'S RESOURCES WISELY

2) PROVIDE EDUCATORS
WITH UNIQUE TEACHING
TOOLS AND COMPELLING
TEACHING EXPERIENCES



4) ENGAGE MINORITY & UNDERREPRESENTED STUDENTS, EDUCATORS, AND RESEARCHERS IN NASA'S EDUCATION PROGRAM

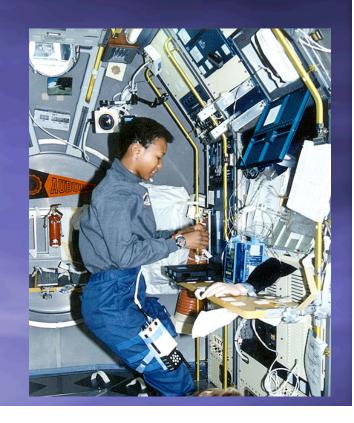


NASA Education Priorities



Expand STEM pipeline (Pre-college)

Increase STEM workforce (Post-secondary)





New Initiatives for FY03

Four Educational Programs



Explorer Schools

Explorer Institutes

Science and Technology Scholarship Program

Educator Astronaut Program



Bottom Line

- NASA's Self-Interest
- National Need
- Taking Proactive Steps
- Collaboration with Industry, Academia and Other Government Agencies